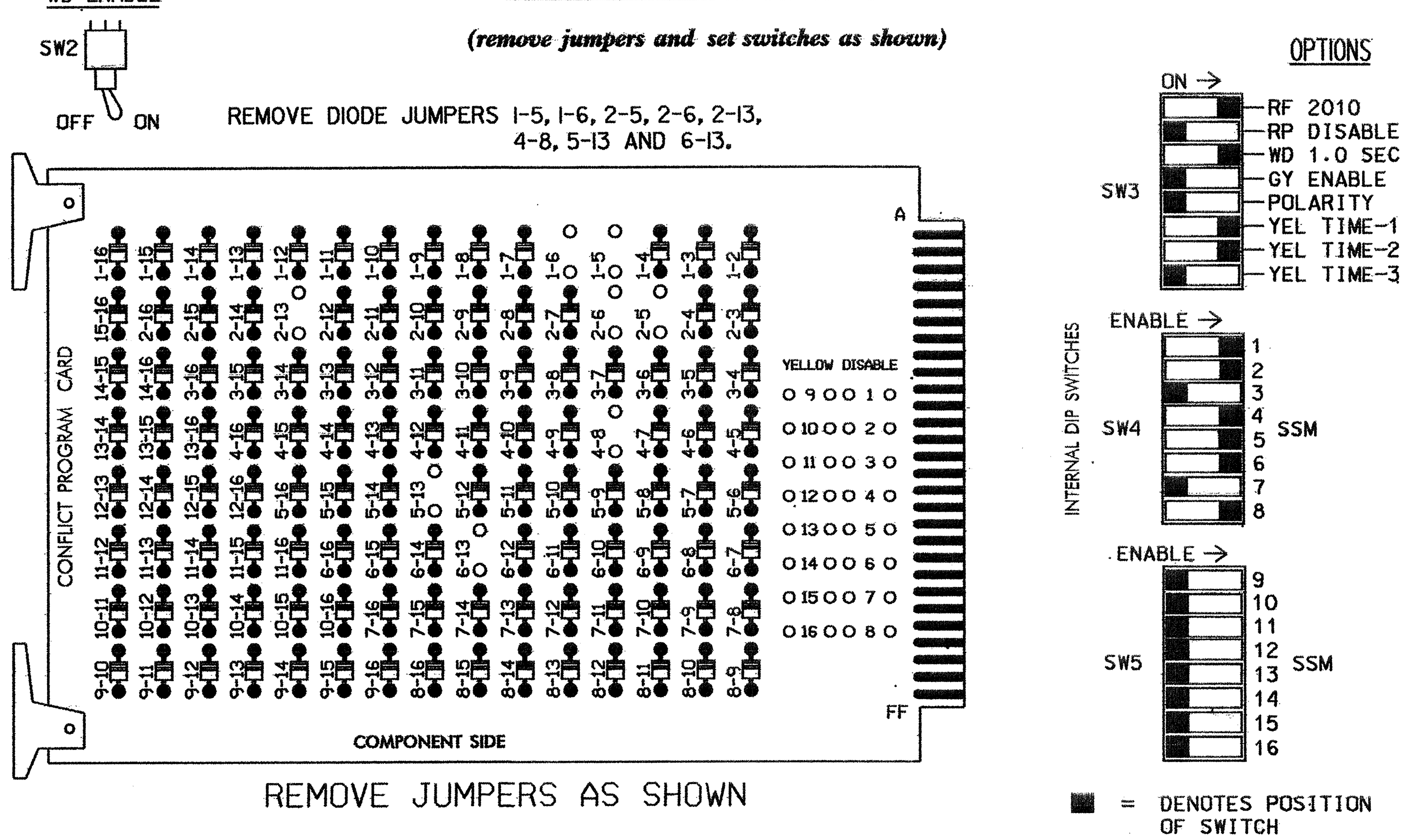
PROJECT REFERENCE NO.	SHEET NO.
N-2904	SIG. 14-A

! -----> NO CHANGES FROM TEMPORARY ONE

EDI MODEL 2010ECL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 2-5, 2-6, 2-13, 4-8, 5-13 AND 6-13.



REMOVE JUMPERS AS SHOWN

■ = DENOTES POSITION OF SWITCH

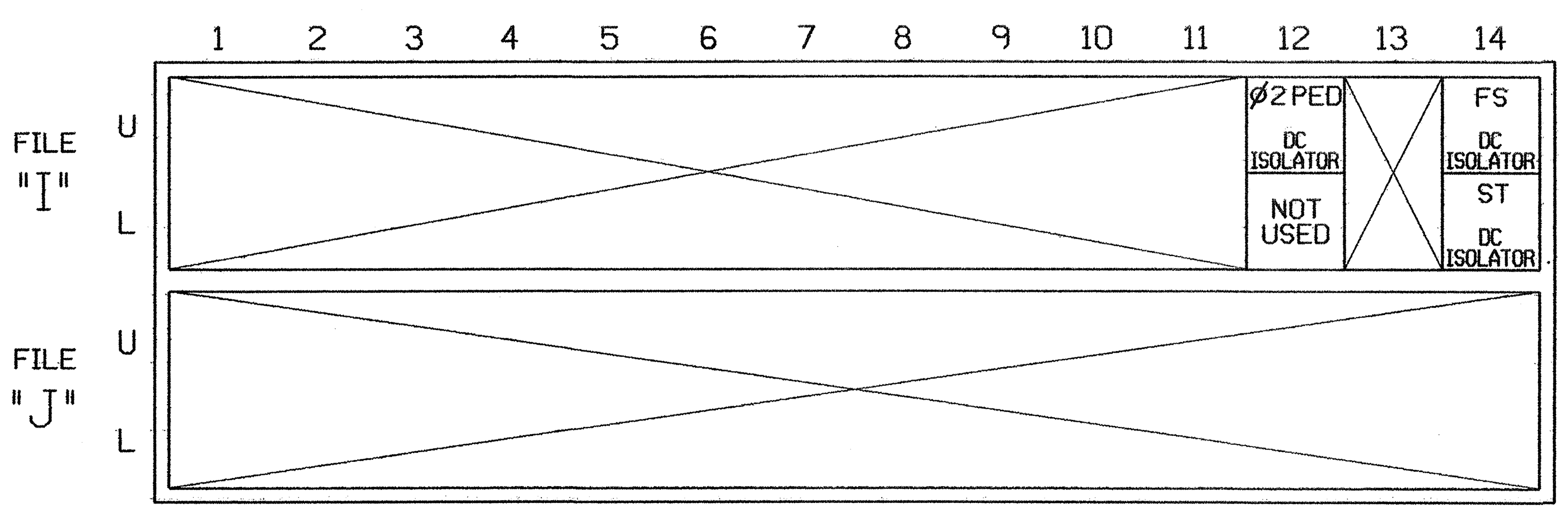
NOTES:

1. CARD IS PROVIDED WITH ALL DIODE JUMPERS IN PLACE. REMOVAL OF ANY JUMPER ALLOWS ITS CHANNELS TO RUN CONCURRENTLY.
2. MAKE SURE JUMPERS SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

! -----> NO CHANGES FROM TEMPORARY ONE

INPUT FILE POSITION LAYOUT

(front view)



☒ = SEE 'SPECIAL DETECTOR NOTE' BELOW

FS = FLASH SENSE
ST = STOP TIME

SPECIAL DETECTOR NOTE

A VIDEO DETECTION SYSTEM IS EXISTING AND IN USE AT THIS SIGNAL INSTALLATION. THIS CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF CAMERAS AND MODIFICATION OF DETECTION ZONES (PER VIDEO EQUIPMENT MANUFACTURER'S INSTRUCTIONS) TO ACCOMPLISH THE DETECTION SCHEMES SHOWN IN VIDEO ZONE DETECTION CHART ON THE SIGNAL DESIGN PLAN.

NOTES

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, INSERT RED FLASH PROGRAM BLOCKS FOR ALL UNUSED VEHICLE LOAD SWITCHES IN THE OUTPUT FILE. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. ENSURE THAT RED ENABLE IS ACTIVE AT ALL TIMES DURING NORMAL OPERATION. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED RED MONITOR INPUTS 3,7,9, 10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER THE CABINET MANUFACTURER'S INSTRUCTIONS.
3. PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT WITHIN THE CONTROLLER PROGRAMMING.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DOUBLE ENTRY.
7. PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VOLUME DENSITY OPERATION.

EQUIPMENT INFORMATION

*CONTROLLER..............McCAIN TRAFFIC TYPE 170E
*CABINET.................McCAIN TRAFFIC MODEL 332
SOFTWARE ....BI TRANS 233NC2
CABINET MOUNT...........BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED......S1,S2,S2P,S4,S5,S6,S8
PHASES USED.............1,2,4,5,6,8,2PED
OVERLAPS................NONE

INSTALLED UNDER TEMPORARY ONE *

! -----> NO CHANGES FROM TEMPORARY ONE

PEDESTRIAN PUSH-BUTTON CONNECTION & PROGRAMMING

PED PUSH BUTTONS	TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
P21, P22	TB8-4,6	I12U	--	67	2	2

INPUT FILE POSITION LEGEND: I12U

FILE I
SLOT 12
UPPER

DETECTOR ATTRIBUTES LEGEND:

1-FULL TIME DELAY
2-PED CALL
3-RESERVED
4-COUNTING
5-EXTENSION
6-TYPE 3
7-CALLING
8-ALTERNATE

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

COUNTDOWN PED SIGNALS ARE REQUIRED TO DISPLAY TIMING ONLY DURING PED CLEARANCE INTERVAL. CONSULT PED SIGNAL MODULE USER'S MANUAL FOR INSTRUCTIONS ON SELECTING THIS FEATURE.

FIELD CONNECTION HOOK-UP CHART

LOAD SWITCH NO.	S1		S2	S2P	S3	S4	S4P	S5		S6	S6P	S7	S8	S8P
PHASE	1		2	2 PED	3	4	4 PED	5		6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	11	82	21,22, 23	P21, P22	NU	41,42	NU	42	51	61,62, 63	NU	NU	81,82, 83	NU
GREEN			130			103				136			109	
YELLOW			129			102				135			108	
RED			128			101				134			107	
RED ARROW	125								131					
YELLOW ARROW	126	126						---	132					
GREEN ARROW	127	127						---	133					
(WALK)				115										
(DON'T WALK)				113										

NU = NOT USED

RIGHT-TURN ARROW SECTION OF HEAD 42 WILL BE BAGGED AND NOT USED DURING TEMPORARY DESIGNS TWO AND THREE. DISCONNECT, COIL AND TAPE FIELD TERMINAL WIRES FOR THIS SECTION. LEAVE FOR FUTURE RE-CONNECTION.

PEDESTRIAN PHASE PROGRAMMING

PROGRAM PEDESTRIAN 2P OUTPUT AT KEYPAD INPUT E/125+F+5=Ø2.

THIS ELECTRICAL DETAIL IS FOR THE TEMPORARY SIGNAL DESIGNS: 05-0432T2
05-0432T3
DESIGNED: JUNE 2004*
SEALED: 7/19/04*
REVISED: N/A

*BY KIMLEY-HORN AND ASSOCIATES, INC.
P.O. BOX 33068
RALEIGH, NC 27636
(919) 677-2000

TEMPORARY DESIGN TWO
TEMPORARY DESIGN THREE

ELECTRICAL AND PROGRAMMING DETAILS FOR:

NC 54/SR 1959 (S. MIAMI BLVD.) at NC 54/SR 1974 (N. SLATER ROAD)

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch, State of North Carolina Department of Transportation, Signals Management Section
122 N. McDowell St., Raleigh, NC 27603

DIVISION 05 DURHAM COUNTY DURHAM

PLAN DATE: JULY 2004	REVIEWED BY: T. Joyce
PREPARED BY: F.E. RUSS	REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022013 ENGINEER GEORGE C. BROWN
George C. Brown 7/30/04
SIGNATURE DATE

SIG. INV. NO. 05-0432T2,T3